

FIGURE 1

SEQ ID NO: 1

Xaa₁-Xaa₂-Xaa₃Cys₄-Xaa₅-Xaa₆-Xaa₇-Cys₈-Xaa₉-Xaa₁₀-Gly₁₁-Xaa₁₂-Cys₁₃-Xaa₁₄-Xaa₁₅-Xaa₁₆-Cys₁₇-Xaa₁₈-Xaa₁₉-R

SEQ ID NO: 2

Arg-Arg Trp-Cys-Tyr-Arg-Lys-Cys-Tyr-Lys-Gly-Tyr-Cys-Tyr-Arg-Lys-Cys-Arg

SEQ ID NO: 3

Lys-Trp-Ala-Phe-Arg-Val-Ala-Tyr-Arg-Gly-Ile-Ala-Tyr-Arg-Arg-Ala-Arg

SEQ ID NO: 4 (GenBank Accession No. AAH20057.1)

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPN
CGWCTNSTFLQEGMPTSARCDDLEALKKGCPDPDIENPRGSKDIKKKNVTNRSKGT
AEKLPEDITQIQPQQQLVRLRLSGEPQTFTLKFRAEDYPIDLYYLMDLSYSMKDDLE
NVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFS
YKNVLSLTNKGEVFNLVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVF
STDAGFHAGDGKLGIVLPNDGQCHLENNMYTMSHYYDYPPIAHLVQKLSENNIQT
FAVTEEFQPVYKELKNLIPKSAVGLTSANSSNVIQLIIDAYNSLSSEVILENGKLSEG
VTISYKSCKNGVNGTGENGRKCSNISIGDEVQFEISITSNKCPKKSDSFKIRPLGF
TEEVEVILQYICECECQSEGIPESPKCHEGNGTFECGACRCNEGRVGRHCECSTDEVN
SEDMDAYCRKENSSEICSNNGEVCVCGQCVCRKRDNTNEIYSGKFCECDNFNCDRSNGL
ICGGNGVCKCRVCECNPYNTGSACDCSLDTSTCEASNGQICNRGICECGVCKCTDPK
FQGQTCEMCQTCLGVCAEHKEVQCRAFNKGEEKKDCTQECSYFNITKVESRDKLPQP
VQPDPVSHCKEVDVDCWFYFTYSVNGNNEVMVHHVENPECPTGPDIIPIVAGVVAGI
VLIGLALLLIWKLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTVVNPKYEGK

SEQ ID NO: 5 (GenBank Accession No. BC020057)

1 agcggagtc gcggaacagc aggccccgagc ccaccgcgcc gggcccccggg cgccgcgcgg
61 aaaagatgaa ttatacaacca attttcttggaa ttggactgtat cagttcagtt tgctgtgtgt
121 ttgctcaaac agatggaaat agatgtttaa aagcaaatgc caaatcatgt ggagaatgt
181 tacaaggcagg gccaaattgt ggggtggtgca caaattcaac atttttacag gaaggaatgc
241 ctacttctgc acgatgtat gatttagaag ccttaaaaaaa gaagggttgc cctccagatg
301 acatagaaaaa tcccgaggc tccaaagata taaagaaaaa taaaatgtt accaaccgt
361 gcaaggAAC agcagagaag ctcaagccag aggatattac tcagatccaa ccacagcagt
421 tggtttgcg attaagatca ggggagccac agacatttac attaaaattc aagagagctg
481 aagactatcc cattgacctc tactaccta tggacctgtc ttactcaatg aaagacgatt
541 tggagaatgt aaaaagtctt ggaacagatc tgatgtatgt aatgaggagg attacttcgg
601 acttcagaat tggatttggc tcattttgtgg aaaagactgt gatgccttac attagcacaa
661 caccagctaa gctcaggAAC ccttgcacaa gtgaacagaa ctgcaccagc ccatttagct
721 acaaaaatgt gctcagtctt actaataaaag gagaagtatt taatgaactt gttggaaaac
781 agcgcatatc tggaaatttgc gattctccag aaggtggttt cgatgccatc atgcaagtt
841 cagtttgtgg atcactgtt ggtggaggatgtt acgttacacg gctgctgttgg tttccacag
901 atgccgggtt tcactttgtt ggagatggga aacttgggtgg cattgttttcaaaatgt
961 gacaatgtca cctggaaaat aatatgtaca caatgagcca ttattatgt tattccttctt
1021 ttgctcacct tggatgtggaa ataataattca gacaattttt gcagttactg
1081 aagaatttca gcctgtttac aaggagctga aaaacttgcat ccctaagtca gcagtaggaa
1141 cattatctgc aaattttagc aatgtatcc agttgatcat tgatgcatac aattccctt
1201 cctcagaagt cattttggaa aacggcaat tggatgttgg agtaacaata agttacaat
1261 cttactgtcaaa gaacgggggtg aatggaaacag gggaaaatgg aagaaaatgt tccaaatattt
1321 ccattggaga tgaggttcaa tttggaaatttgcataacttca aaataagtgt ccaaaaaagg
1381 attctgacag ctttttttttgg gctttacggg ggaagtagag gtttttttttcc

FIGURE 1 (continued)

1441 agtacatctg tgaatgtgaa tgccaaagcg aaggcatccc tgaaagtccc aagtgtcat
1501 aaggaaaatgg gacatttgag tgtggcgcgt gcaggtgcaa tgaagggcgt gttggtagac
1561 attgtgaatg cagcacagat gaagttaca gtgaagacat ggatgcttac tcgcaggaaag
1621 aaaacagttc agaaatctgc agtaacaatg gagagtgcgt ctgcggacag tigtgttgta
1681 ggaagagggta taatacataat gaaattattt ctggcaattt ctgcgagtgt gataattca
1741 actgtgatag atccaatggc ttaatttgg gaggaaatgg tggttgcag tgctgtgt
1801 gtgagtgcaa ccccaactac actggcagtg catgtgactg ttcttggat actagactt
1861 gtgaagccag caacggacag atctgcaatg gccggggcat ctgtgagtgt ggtgtctgt
1921 agtgtacaga tccgaagttt caagggcaaa cgtgtgagat gtgtcagacc tgccctgt
1981 tctgtgctga gcataaaagaa tctgttcagt gcagagcctt caataaaagga gaaaagaaaag
2041 acacatgcac acaggaatgt tcctattta acattaccaa ggtagaaagt cgggacaaat
2101 taccggcagg ggtccaaacct gatcctgtgt cccattgtaa ggagaaggat gttgacgact
2161 gttggttcta ttttacgtat tcagtgaatg ggaacaacga ggtcatggg catgtgt
2221 agaatccaga gtgtcccact ggtccagaca tcattccaaat tctgtctgg
2281 gaattgttct tattggcattt gcattactgc tgatatggaa gctttaatg ataattcatg
2341 acagaagggta gtttgcataa tttgaaaagg agaaaatgaa tgccaaatgg gacacgggt
2401 aaaatccat ttataagagt gccgtaaaca ctgtggtcaa tccgaagtat gaggaaaat
2461 gagtactgcc cgtcacaatc ccacaacact gaatgcaaaag tagcaatttc catagtcaca
2521 gttaggttagc ttttagggcaa tattgccccatg gtttactca tctgtcaggtt tgaaaatgt
2581 acaatatgta taatttttaa aatgttttat tattttgaaa ataatgttgc aattcatgccc
2641 agggactgac aaaagacttg agacaggatg gtttacttgc tcagctaagg tcacattgt
2701 ccttttgcac ttttcttcc tggactattt aatcaagct tattggatta agtgatattt
2761 ctatagcgat tgaaagggca atagttaaag taatgagcat gatgagagtt tctgttaatc
2821 atgttattaa actgatttt agctttacaa atatgtcagt ttgcagttt gcagaatcca
2881 aagtaaatgt cctgctagct agttaaggat tttttaaat ctgttatttt gctatttgc
2941 ttttagacat gactgtatgac atatctgaaa gacaagtatg ttgagagttt ctgggtaaa
3001 atacgtttga aatagttgcatcacaaggc catggggaaa attcagagag ttaggaagga
3061 aaaaccaata gctttaaaac ctgtgtccca ttttaagagt tacttaatgt ttggtaactt
3121 ttatgccttc actttacaaa ttcaaggcattt agataaaaga accgagcaat tttctgt
3181 aaagtccctt atttacactt attacatac aggccatact ttacaaaagta tttgctgaat
3241 ggggaccttt tgagttgaat ttatttattt attttattt tttttatgt ctgggtctt
3301 ctatcaccc tttcaatctt ttaatgtatt ttttgcaat tttggggtaa gactttttt
3361 atgagtagctt ttttttggaa gtttttagcgg tcaatttgcctt ttttaatga acatgt
3421 ttatactgtg gctatgcaac agctctcacc tacgcgagtc ttactttgag ttagtgc
3481 aacagaccac tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
3541 cacattcttg ttttaagtgc tttttttttt tttttttttt tttttttttt tttttttttt
3601 gaagtttattt attaaatatg cttttttttt tttttttttt tttttttttt tttttttttt

SEQ ID NO: 6 (GenBank Accession No. NP_000600)

1 mnakvvvvlv lvltalcls gkpvslsyrc pcrffeshva ranvkhkli ntpncalqiv
61 arlknnnrqv cidpklkwiq eylekalnkr fkm

SEQ ID NO: 7 (GenBank Accession No. NM_000609)

1 tctccgtcag ccgcattgcc cgctcgccgt ccggcccccg acccggtcgtc gtccgcccgc
61 ccggccgccc gcccgcgcca tgaacgcca ggctcggtc gtgtcggtcc tcgtgctgac
121 cgcgtctgc ctcaaggacg ggaagcccgta cagcctgagc tacagatgcc catggcgatt
181 cttcgaaaagc catgttgcca gagccaaacgt caagcatctc aaaattctca acactccaaa
241 ctgtccctt cagattgttag cccggctgaa gaacaacaac agacaagtgt gcattgaccc
301 gaagctaaag tggattcagg agtacctgga gaaagcttta aacaagaggt tcaagatgtg
361 agagggtcag acgcctgagg aacccttaca gttaggagccc agctctgaaa ccagtgttag
421 ggaagggcct gccacagcct cccctgcccgg cggcaggccc caggcattgc caagggtctt
481 gtttgcaca ctttgcata ttttcacccat ttgattatgt agcaaaatac atgacattta
541 ttttcattt agtttgatta ttcaagtgtca ctggcgacac gttagcagctt agactaaggc
601 cattattgtat cttgccttat tagagtgtct ttccacggag ccactcctct gactcagggc
661 tcctgggttt tgatattctct gagctgtgca ggtggggaga ctgggctgag ggagccctggc

FIGURE 1 (continued)

SEQ ID NO: 8 (GenBank Accession No. AAH55419.1)

MAWEARREPGRRAAVRETVMLLLCLGVPTGRPYNVDTESALLY
QGPHTNLFGYSVVLHSHGANRWLVLGAPTANWLANASVINPGAIYRCRIGKNPGQTCE
QLQLGSPNGEPCGKTCLEERDNQWLGVTLSRQPGENGSIVTCGHRWKNIFYIKNENKL
PTGGCYGVPPDLRTEL SKRIAPCYQGSISKYRART

SEQ ID NO: 9 (GenBank Accession No. BC055419)

1 gggggctctt gctgagccca gagccatccc gcgcgtcg ggctgggagg cccggggccag

FIGURE 1 (continued)

61 gacgcgagtc ctgcgcagcc gaggttcccc agcgccccct gcagccgcgc gtagggcagag
121 acggagcccg gccctgcgcc tccgcaccac gcccgggacc ccacccagcg gcccgtaccc
181 ggagaagcag cgcgagcacc cgaagctccc ggctggcgcc agaaaaccggg agtggggccg
241 ggcgagtgcg cggcatccca ggccggcccg aacgcctccgc cgcggtggg ccgacttccc
301 ctcccttccc ctctcttccc ctcttagccc gctggcgcgg gacacgcgtgc gcctcatctc
361 ttggggcggtt ctccccgtt ggccaaccgt cgcatcccgt gcaactttgg ggtagtgccc
421 gtttagtgtt gaatgttccc caccgagagc gcatggctt ggaagcgagg cgcaaccgg
481 gccccccaag ggccgcgcgc cgggagacgg ttagtgcgtt gctgtgcctg ggggtcccga
541 cggccgccc ctacaacgtg gacactgaga ggcgcgtgtt ttaccaggc cccacacaaca
601 cgctgttcgg ctactcggtc gtgctgcaca gccacggggc gaaccgttgg ctccctagtgg
661 gtgcggccac tgccaactgg ctcgccaacg cttagtgcgtat caatcccgg gcgatttaca
721 gatgcaggat cggaaagaat cccggccaga cgtgcgaaca gctccagctg ggtagcccta
781 atggagaacc ttgtggaaag acttgtttgg aagagagaga caatcagtgg ttgggggtca
841 cacttccag acagccagga gaaaatggat ccatcgtgac ttgtgggcat agatggaaaa
901 atatattta cataaaagaat gaaaataagc tccccactgg tgggtgcstat ggagtgcccc
961 ctgatttacg aacagaactg agtaaaagaa tagctccgtt ttatcaaggt agcatcagca
1021 agtacagagc taggacataa cagaagttag cagaatttggg gtgaatgtca acagagcatg
1081 tcagaggata tctgcagcaa aactaaaatc caacaatgcg tctttaggag ctaagaaaca
1141 tatgaatgca aattcataat tttcttaacca ccctcactct caaaaaaaaaa tccctcagca
1201 cgc当地 aattttattt gttggccaaa ctttggccaa gtatttgagt tcaatttatgg
1261 gtgctaataa gactttggtc tttcttccctt ggaatgtgtat gtcacagagc agcttatatt
1321 acatataattc ctatttgcc ttccggatacc caaaaagataa aaaagtgaat attgattctc
1381 agttgcaata aaactcagtc ttgatttctg caaaaaaaaaa aaaaaaaaaa

SEQ ID NO: 10 (GenBank Accession No. AAH20968.1)

MEGISIYTSNDYTEEMGSGDYDSMKEPCFREENANFNKIFLPTI
YSIIIFLTGIVGNGLVILVMGYQKKLRSMTDKYRLHLSADLLFVITLPFWAVDAVANW
YFGNFLCKAVHVIYTVNLYSSVLILAFISLDRLAIVHATNSQRPRKLLAEKVYVG
WIPALLTIPDFIFANVSEADDRYICDRFPNDLWVVVFQFHIMVGLILPGIVILSC
YCIIISKLSHSKGHQKRALKTTVILILAFFACWLPHYIGISIDSFILEIIKGCEF
ENTVHKWISITEALAFFHCCLNPILYAFLGAKFKTSQAHLTSVRGSSLKILSKGKR
GGHSVSTESESSSFHSS

SEQ ID NO: 11 (GenBank Accession No.BC020968)

1 ccgagggcct gagtgctcca gtagccaccg catctggaga accagcggtt accatggagg
61 ggatcgttat atacacttca gataactaca ccgaggaaat gggctcaggg gactatgact
121 ccatgaagga accctgttcc cgtaagaaa atgctaattt caataaaatc ttccctgccc
181 ccatctactc catcatcttc ttaactggca ttgtggccaa tggattgttc atcctggc
241 tggtttacca gaagaaactg agaagcatga cggacaagta caggctgcac ctgtcagtgg
301 ccgacctcct ctttgtcattc acgcttccct tctggcagt ttagtgcgtg gcaaactgg
361 actttggaa cttcctatgc aaggcagtcc atgtcatcta cacagtcaac ctctacagca
421 gtgtcctcat cctggccttc atcagtctgg accgctacct ggccatcgtc cacgcccacca
481 acagtcaagag gccaaggaag ctgttggctg aaaaggtgtt ctatgttgc gtctggatcc
541 ctgcctcct gctgactatt cccgacttca tcttgccaa cgtcagtggag gcagatgaca
601 gatatatctg tgaccgttc taccctaatg acttgtggg ggttgttgc cagtttcagc
661 acatcatggt tggccttac ctgcctggta ttgtcattct gtctctgtat tgatttatca
721 tctccaagct gtcacactcc aaggccacc agaagcgaa ggcctcaag accacagtca
781 tcctcatcct ggcttcttc gcctgttggc tgccttacta cattggatc agcatcgact
841 ccttcatttc cctggaaatc atcaagcaag ggtgtgagtt tgagaacact gtgcacaagt
901 ggatttccat caccgaggcc ctagcttct tccactgtt gtcgaacccc atctctatg
961 ctttccttgg agccaaattt aaaacctctg cccagcacgc actcacctct gtgagcagag
1021 ggtccagcct caagatcctc tccaaaggaa agcgagggtgg acattcatct gttccactg
1081 agtctgagtc ttcaagtttt cactccagct aacacagatg taaaagactt ttttttata
1141 gataaaataac tttttttaa gttacacatt tttcagatattt aaaaagactga ccaatattgt
1201 acagttttta ttgctgttg gattttggc ttgtgtttct ttagttttt gtaagttaa
1261 ttgacttatt tatataaaatt ttttttggcatttcatattgtat tttttttttt caggacactgt

FIGURE 1 (continued)

1321 ggccaagttc ttagttgctg tatgtctcg gttaggactg tagaaaaagg aactgaacat
1381 tccagagcgt gtagtgaatc acgtaaagct agaaatgatc cccagctgtt tatgcata
1441 taatctctcc attcccgtgg aacgttttc ctgttcttaa gacgtgattt tgctgttagaa
1501 gatggcactt ataaccaaag cccaaagtgg tatagaaatg ctggttttc agtttcagg
1561 agtgggttga ttccagcacc tacagtgtac agtcttgat taagttgtta ataaaagtac
1621 atgttaaact taaaaaaaaaaa aaaaaaaaaaaa aa